

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool El Paso Formation El Paso Verde County El Paso
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-3 Unit Well No. 3A (10)
Unit M Sec. 30 Twp. 27 Rge. 2 Pay Zone: From 4700 To 5564
Casing: OD 5-1/2 WT. 15.5 Set At 5439 Tubing: OD 2 WT. 4.7 T. Perf. 5524
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .687 Estimated _____
Date of Flow Test: From 10/7/58 To 10/15/58 * Date S.I.P. Measured 6/17/58
Meter Run Size _____ Orifice Size 1.250 Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.85) ² x sp. const. 10 = 469 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) = 469 psia (h)
P_t = (h) + (f) = 469 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1018 psig + 12 = 1030 psia (k)
P_c = (j) or (k) whichever well flowed through = 1030 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 515 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{1322}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 1322 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{9886}{9514} = \underline{1311}$ MCF/da.

SUMMARY
P_c = 1030 psia
Q = 1322 Mcf/day
P_w = 906 psia
P_d = 515 psia
D = 1311 Mcf/day
Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3658</u>	<u>.234</u>	<u>154.400</u>	<u>36.148</u>	<u>219.961</u>	<u>256.109</u>	<u>906</u>

B at 500 = 1272

